

Aryadi Kurniawan SpOT K PhD
Pediatric Orthopaedic Surgeon
Faculty of Medicine University of Indonesia
Ciptomangunkusumo General Hospital
aryadi.kurniawan@ui.ac.id
aryadi.kurniawanortho@gmail.com
Orcid ID 0000-0003-3569-5829



Summary

Paediatric orthopaedic surgeon, researcher, educator.

Completed Paediatric Orthopaedic Fellowships NUH Singapore (2006), Fukuoka Children Children Hospital (2006), John Hunter Children Hospital Royal Newcastle Australia (2007-2008), Ponseti Orthopaedic Iowa USA (2013), Lucille Packard Stanford Children Hospital USA (2014)

Achievement

1. AAOS International Surgical Skills Scholarship Award (2014) awarded by American Academy of Orthopaedic Surgeon
2. Distinguished Academic Faculty (2012) awarded by Dean of Medical Faculty Universitas Indonesia
3. Satyalancana Karya Satya XX (2020) awarded by President Republic of Indonesia

Research Grant

1. Decentralization and National Competitive Research Grant (2018) awarded by Ministry of Research, Technology and Higher education Indonesia
2. International Indexed Publication (2024) awarded by Universitas Indonesia. Ministry of Research, Technology and Higher education Indonesia

Selected Membership/Board Positions

1. Indonesian Orthopaedic Association. Secretary General 2010 – 2012
2. Indonesian Paediatric Orthopaedic Society. Past President 2010 - 2014
3. American Academy Orthopaedic Surgeon International Affiliate member
4. Asia Pacific Orthopaedic Association (APOA) Paediatric Section Board of Faculty
5. Asia Pacific Paediatric Orthopaedic Society (APPOS) Board Of Faculty
6. ASEAN Paediatric Orthopaedic Society Board of Faculty
7. AO Trauma Asia Pacific

International Journal Reviewer and Editor

1. Malaysian Orthopaedic Journal. Review certified by Publons. Total 8 reviews
2. Journal Paediatric Orthopaedic B Lippincot William Wilkins. Review certified by Publons. Total 36 review
3. Editor on Nelson Essential Paediatric Indonesian Edition. Orthopedic chapter in Nelson Ilmu Kesehatan Anak Essensial 6th ed. Elsevier. 2014. pp 811-45
4. Editor on Nelson Essential Paediatric Indonesian Edition. Orthopaedic chapter in Nelson Ilmu Kesehatan Anak Essensial 8th ed. Elsevier. 2021 pp 781-809

Scientific meeting as Faculty/ Invited Speaker

1. Fukuoka 2006. Presentation at Japanese Paediatric Orthopaedic Association annual meeting JPOA with the topic "Bone tuberculosis in Indonesia"
2. Singapore Orthopaedic Association annual meeting 2011 with the topic "Ponseti method for neglected clubfoot, Are we already there"
3. Hongkong 2012 Asia Pacific summit Meeting of Mucopolysaccharidosis with the topic "Orthopaedic manifestation and management of Morquio patients in Indonesia"
4. Davos Switzerland Basic Principle of AO Course 2014 International Faculty
5. Turkiye 2018 20th Asia Pacific Orthopaedic Association Congress Poster Presentation Anterior Pelvic Osteotomy for Closure of Neglected Bladder Exstrophy (P167)
6. Seoul Korea 2019 Asia Pacific Pediatric Orthopaedic Society with the topic Blount disease
7. Singapore Orthopaedic Association 42nd Annual scientific Meeting 2019 with the topic Cerebral palsy, Clubfoot and Supracondylar fracture
8. Asia Pacific Infection Society as part of Asia Pacific Orthopaedic Association Meeting Indonesia 2019 with the topic Management of Acute Hematogenous Osteomyelitis and septic arthritis in Children
9. Ponseti Course for Clubfoot. Jointly run by Indonesian Orthopaedic Association and Australian Orthopaedic Association. Indonesia 2019. The role as Director of the Course and Faculty delivering speeches and table instructor
10. Malaysian Orthopaedic Association Annual Scientific Meeting 2021 (online) with the topic Biocellular approach of Congenital Pseudoarthrosis tibia
11. Singapore Orthopaedic Association 42nd Annual scientific Meeting 2021 (online) with the topic 18-month-old DDH Anterior vs Medial Open Reduction
12. Malaysian Orthopaedic Association Annual Scientific Meeting 2022 (online) with the topic Principles in Paediatric Forearm fracture
13. Combined meeting Philippine Orthopaedic Association and Asia Pacific Orthopaedic Association Annual Scientific Meeting 2022 (online) Management of Neglected Malunion supracondylar fracture
14. Combined Meeting Singapore Orthopaedic Association and Asia Pacific Paediatric Orthopaedic Society 2023 with the topic Blount disease acute vs gradual correction
15. Borneo Paediatric Lower Limb Symposium Kuching Sarawak 2024 with the topic Assesment of Paediatric Knee deformity, Complex Clubfoot Differ from normal clubfoot and Congenital Pseudoarthrosis Tibia best approach

Working Experience

1. Head of Paediatric Orthopaedic Division at Department of Orthopaedic and Traumatology Faculty of Medicine Universitas Indonesia Ciptomangunkusumo General Hospital RSCM 2012 – now
2. Head of Paediatric Orthopaedic Subspeciality Training program Universitas Indonesia 2022 -now
3. Cordinator of Research and Development Department of Orthopaedic and Traumatology FKUI RSCM 2010 – 2012
4. Head of Orthopaedic-Traumatology Training Programme Faculty of Medicine Universitas Indonesia 2015 – 2019

Publication as First Author

1. Kurniawan A, Dilogo IH, Pawitan JA, Widodo W, Oesman I, Martinus A. (2024) The effects of secretome of umbilical cord mesenchymal stem cells on regeneration of sciatic nerve defects in Sprague dawley rats. PLoS ONE 19(12): e0310467. <https://doi.org/10.1371/journal.pone.031046>
2. Kurniawan A, Ivansyah MD, Dilogo IH, Hutami WD. Umbilical cord mesenchymal stem cells combined with secretome for treating congenital pseudarthrosis of the Tibia: a case series. Eur J Orthop Surg Traumatol. 2023;33(7):2881-2888
3. Kurniawan A, Kodrat E, Gani YI. Effectiveness of granulocyte colony stimulating factor to enhance healing on delayed union fracture model Sprague-Dawley rat. Annals of Medicine and Surgery 61 (2021) 54–60.
4. Kurniawan A, Hakam M, Aryandhani LP, Hutami WD. Favourable outcome of severe, unstable grade III slipped capital femoral epiphysis managed by closed reduction percutaneous pinning with mid-term follow up: A case report and literature review. International Journal of Surgery Case Reports 123 (2024) 110264. <https://doi.org/10.1016/j.ijscr.2024.110264>
5. Kurniawan A, Amin BA, Canintika AF. Surgical outcome of distal tibia Salter Harris II fracture in osteopetrosis patient. International Journal of Surgery Case Reports 113 (2023) 109090 <https://doi.org/10.1016/j.ijscr.2023.109090>
6. Kurniawan A, Canintika AF. A rare case of 9 years congenital muscular torticollis treated with complete unipolar sternocleidomastoid release: A case report and literature review. International Journal of Surgery Case Reports 96 (2022) 107298 <https://doi.org/10.1016/j.ijscr.2022.107298>
7. Kurniawan A, Triadi MW, Witantra DH. Spontaneous Healing of A Traumatic Critical Radius Bone Defect in Adolescent: A Rare Case Report. International Journal of Surgery Case Reports <https://doi.org/10.1016/j.ijscr.2021.105806>
8. Kurniawan A, Sitorus IP, Loho T, Hutami WD. A rare case of septic arthritis of the knee caused by Salmonella typhi with preexisting typhoid fever in a healthy, immunocompetent child. International Journal of Surgery Case Reports 78 (2021) 76–80
9. Kurniawan A, Maruanaya S. Intra Operative Ziehl-Neelsen Test to Establish Diagnosis of Osteoarticular Tuberculosis Case: A Case Report and Literature Review from Multifocal Osteoarticular Tuberculosis Case. Int J Recent Innov Med Clin Res. 2019 I(2):7-15
10. Kurniawan A, Kasman D. Histomorphometric analysis of fracture healing using ImageJ software in Sprague–Dawley rat models of fractures with mechanical force to the bone only and to the bone and periosteum. J. Phys. 2018: Conf. Ser. 1073 042036
11. Kurniawan A, Soekarno NR, Siregar NC. Histomorphometric Assesment of Fracture Healing in Contaminated Segmental Fracture after Sterilization using Microwave Irradiation: An experimental study on Wistar rats. J. Phys. 2018: Conf. Ser. 1073 042037
12. Kurniawan A, Fauzi A. Application of Pavlik Harness in developmental dysplasia of the hip (DDH). JuKe Unila 2014; 4(8):208-217
13. Kurniawan A, Siregar PS. Bone and Joint Tuberculosis, Indonesia's Experience. J Jpn Peditr Orthop Assoc .2008.17 (1): 141 – 6

Publication as Co Author

1. Ivansyah MD, Kurniawan A, Parasmadhan R. Management of an isolated posterior cruciate ligament avulsion fracture in a pediatric patient using screw fixation: A case report. International Journal of Surgery Case Reports 126 (2025) 110785.

2. Hilmi M, Haryana SM, Magetsari R, Kurniawan A, Baikuni B, Saraswati PA. Genetic Role in Recurrence of Idiopathic CTEV: A Systematic Review. *Orthopedic Research and Reviews* 2023, 15:19-25
3. Nefihancoro UH, Hartono H, Indarto D and Kurniawan A. The effect of red yeast rice on delayed union fracture in animal model: a molecular study of IL-6, BMP-2, VEGF, BALP, and N-Mid-OC in fracture healing. *F1000 Research* 2022, 11:1398 (<https://doi.org/10.12688/f1000research.125859.1>)
4. Kamal AF, Oktari PR, Kurniawan A, Kodrat E, Mumpuni NA. Clinical Outcomes of Delayed Osteoarticular Tuberculosis: A Review of 30 Cases. *Orthopedic Research and Reviews* 2022;14 351–363.
5. Kamal AF, Widodo W, Kuncoro MW, Karda IWAM, Kurniawan A et al. Emergency orthopaedic surgery in the pandemic era: A case series at Cipto Mangunkusumo national tertiary hospital in Jakarta, Indonesia. *International Journal of Surgery Case Reports* 77 (2020) 870–874.
6. Kamal AF, Widodo W, Kuncoro MW, Karda IWAM, Kurniawan A et al. Does elective orthopaedic surgery in pandemic era increase risk of developing COVID-19? A combined analysis of retrospective and prospective study at Cipto Mangunkusumo Hospital, Jakarta, Indonesia. *Annals of Medicine and Surgery* 60 (2020) 87–91
7. Kamal AF, Waryudi A, Kurniawan A, Lubis AM, Gatot D. Various Surgical Treatment of Hemophilic Pseudotumor : A Case Series. *Arch Bone Jt Surg.* 2019; 7(6): 514-522.
8. Dilogo HI, Mujadid F, Nurhayati RW, Kurniawan A. Evaluation of bone marrow-derived mesenchymal stem cell quality from patients with congenital pseudoarthrosis of the tibia. *J Orthop Surg Res* 2018; 13;266
9. Nagrani DG, Kurniawan A, Wahyuni LK, Xavier BC, Furga AS, Sjarif D. Postural and Gait Abnormality in Even Plus Syndrome. *J Mol Genet Med* 2018, 12:2 DOI: 10.4172/1747-0862.1000350
10. Fauzi A, Kamal AF, Kurniawan A, Kodrat E. Role of Sildenafil in Acceleration of Delayed Union Fracture Healing on Sprague-Dawley Rats Model. *British J Med & Medical Res* 2015. 8(5): 419-428
11. Phedy Phe, Kurniawan A, Siregar NC. Peran Beras Angkak dalam Mempercepat Penyembuhan Fraktur dengan Gangguan Vaskularisasi pada Rattus novergicus. *Electronic Journal Kedokteran Indonesia.* 2015. 3(3): 210-9
12. Ihsan M, Kurniawan A, Prasetyo M, Kiranasari A. The Comparison of Autoclave, Povidone Iodine 10%, and Boiling toward Radiological Union Rates and Bacterial Culture. *J Indones Orthop.* 2012.40 (3):35-41
13. Oppusunggu PP, Kurniawan A, Kiranasari A. Effect microwave irradiation 5, 7 and 10 minutes toward infection risk on free bone fragment contaminated with S Aureus and B Subtilis. Experimental study in femur Wistar Rats. *J Indones Orthop.*2012.40(2):2-7